

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

ORDER NO. 82-56

WASTE DISCHARGE AND CLOSURE REQUIREMENTS FOR

CITY OF MENLO PARK, SAN MATEO DISPOSAL
COMPANY AND SOUTH COUNTY GARBAGE AND
REFUSE DISPOSAL DISTRICT, MARSH ROAD
CLASS II-2 SOLID WASTE DISPOSAL SITE
MENLO PARK, SAN MATEO COUNTY

The California Regional Water Quality Control Board, San Francisco Bay Region,
(hereinafter called the Board) finds that:

1. The Marsh Road Solid Waste Disposal Site is owned by the City of Menlo Park and operated by San Mateo Disposal Company and the South County Garbage and Refuse Disposal District. These three parties are hereinafter referred to as the dischargers.
2. The landfill covers 155 acres (includes proposed 9 acre expansion area) and is located near San Francisco Bay on former salt ponds northeast of the Highway 101 and Marsh Road interchange, as shown on Attachment A which is incorporated herein and made part of this Order. A flood control slough west of the site and Westpoint Slough north of the site run within 500 feet of the landfill. This Board adopted waste discharge requirements Order No 78-111 on December 19, 1978, for the initial 146 acre site.
3. This Board adopted Order No 82-3 on February 17, 1982, amending Order No. 78-111 and establishing closure requirements for the then existing 146 acre disposal site.
4. The dischargers have proposed expanding into a 9 acre area that was formerly part of a parcel used to mitigate the effects of filling other areas as required by BCDC permit No. 18-70. This area was originally to remain as open water surface.
5. The entire site is underlain by a substantial layer of essentially impermeable bay mud below which lie highly plastic clays with discontinuous lenses. Poor quality perched groundwater exists directly beneath the site. A deeper useable aquifer is protected by extensive layers of bay mud.

The dischargers submitted a report entitled "Soil Investigation, Proposed Sanitary Landfill Site Portion of the Proposed Marsh Rd. Park Menlo Park, CA" dated August 14, 1970. This report addressed bay mud thickness, permeability and recommendations for a flood control dike in a 50 acre parcel of which the 9 acre lake is a part. This report verified that bay mud thickness and permeability in the disposal area, including the 9 acre, exceed minimum requirements for Class II-2 landfill.

6. The dischargers submitted a supplemental report dated January 5, 1981. This report verified that perimeter flood control dikes for the entire landfill (including the 9 acre area) had been improved to provide 100 yr. flood protection.
7. The dischargers submitted a report entitled "Closure Plan for Marsh Road Sanitary Landfill" dated October 5, 1979. This plan addressed final cover, site drainage and grades, stability and leachate control and monitoring. This report is consistent with this Board's closure criteria contained in Resolution 77-7 with the exception that in certain areas of the site, there could be potential erosion problems due to slopes which would be in excess of 700 feet long with 90 feet of drop without any benches or collector systems to intercept flow.

The potential erosion problems can be mitigated with the implementation of an adequate landscape and vegetative cover plan to control surface erosion. A report supplement of January 1981 adequately addresses such a landscape plan.

8. The site will Tentatively cease accepting waste by the spring of 1984.
9. The U.S Army Corps of Engineers has issued a permit for disposal operations in the 9 acre expansion area under Section 404 of the Clean Water Act.
10. An Environmental Impact statement prepared by the City of Menlo Park found that the proposed site expansion and discharge of wastes into the 9 acre expansion area would have minimal water quality impacts. However there will be adverse impacts on a wetlands area and therefore appropriate mitigation is necessary if expansion is to occur.
11. Due to the unavailability of city owned lands suitable for tidal restoration as mitigation the City has established a \$150,000 cash fund to purchase land suitable for wetlands or tidal restoration. This mitigation measure has been accepted by BCDC, the Army Corps of Engineers and the State Dept. of Fish and Game.
12. The site accepts only Group 2 and 3 wastes. Public disposal areas are operated by the South County Garbage and Refuse Disposal District, and private disposal areas are operated by the San Mateo Disposal Company. The landfill will be converted to a public park when disposal activity is completed.
13. The beneficial uses of Westpoint Slough and San Francisco Bay are:
 - a. Habitat and resting areas for waterfowl
 - b. Fish and shellfish habitat
 - c. Recreation
 - d. Aesthetic enjoyment
 - e. Industrial Service Supply
 - f. Navigation

14. The land within 1000 feet of the site is used for salt ponds, marshland, an industrial park, and a wastewater treatment plant.
15. The Board adopted a Water Quality Control Plan for the San Francisco Bay Basin in April 1975 and this Order implements the Water Quality Objectives stated in that Plan.
16. This Board has notified the discharger and interested agencies and persons of its intent to prescribe waste discharge requirements for the discharge and has provided them with an opportunity for a public hearing and an opportunity to submit their written views and recommendations.
17. The Board, in a public meeting, heard and considered all comments pertaining to the discharge.
18. This project involves the continued operation of a publicly owned Class II-2 facility with minor alterations to the land. Consequently this project will not have a significant effect on the environment based upon the exemption provided in Section 15101, Title 14, California Administrative Code.

IT IS HEREBY ORDERED that the City of Menlo Park, San Mateo Disposal Company, and South County Garbage and Refuse Disposal District and any other persons who operates this site, shall comply with the following:

A. Prohibitions

1. The disposal of waste shall not cause pollution or a nuisance.
2. Group 2 wastes shall not be placed in or allowed to contact ponded water from any source whatsoever.
3. Group 1 wastes shall not be stored or deposited at this site.
4. Waste materials shall not be disposed of in any location where they can be carried from the disposal site and discharged into waters of the State.
5. Sewage sludge and high moisture content group 2 wastes shall not be discharged at the site unless authorized in writing by the Executive Officer of this Board.
6. Leachate from Group 2 wastes and ponded water containing leachate or in contact with refuse shall not be discharged to waters of the State.
7. The discharger shall remove and relocate any wastes which are disposed of at this site in violation of the above requirements.

B. Leachate and Drainage Specifications

1. Water used during disposal site operation shall be used judiciously for dust control, fire suppression, and other necessary activities.

2. The disposal areas shall be protected from any washout or erosion of wastes or covering material, and from inundation, which could occur as a result of floods or storms having a predicted frequency of one in 100 years.
3. Vertical and lateral hydraulic continuity with usable groundwaters shall be prevented by the presence of a soil barrier above the groundwater at least five feet in thickness with the top eighteen inches of soil to be compacted to ninety percent compaction or attain a permeability of 1×10^{-6} cm/sec or less or an equivalent combination of soil thickness and permeability.
4. Surface drainage from tributary areas, and internal site drainage from surface or subsurface sources shall not contact or percolate through group 2 wastes during disposal operation and for the active life of the site. The perimeter drainage ditches and all other facilities shall be designed to convey maximum anticipated storm runoff, and withstand differential settlement. These facilities shall be constructed over a natural ground or through lined channel or pipes.
5. The discharge of wastes shall not cause the following conditions to exist in waters of the State at any place.

a. Surface Water

Floating, suspended, or deposited macroscopic particulate matter or foam;

Bottom deposits or undesirable aquatic growths;

Alteration of temperature, turbidity, or apparent color beyond preset natural background levels;

Toxic or other deleterious substances to be present in concentrations or quantities which will cause deleterious effects on aquatic biota, wildlife or waterfowl, or which render any of these unfit for human consumption either at levels created in the receiving waters or as a result of biological concentration.

b. Groundwater

The useable groundwater shall not be degraded as a result of the solid waste disposal operation.

6. The migration of methane gas from the disposal sites shall be controlled as necessary to prevent the creation of nuisance.

C. Site Closure Specifications

1. This site shall continue to be operated and its closure completed in accordance with the report, "Closure Plan for Marsh Road Sanitary Landfill", dated October 5, 1979.

2. The dischargers shall implement the landscape and vegetative cover plan to control surface erosion in accordance with the Closure Plan supplement of January 1981. Based on observations to assess the effectiveness of this plan this Board may require alternative methods for the control of surface erosion.
3. Any modification in the method of closure of the Marsh Road Sanitary Landfill from that contained in the closure report shall be approved by this Board, unless the modifications provide for direct compliance with the provisions of Resolution 77-7. Such determination shall be made by the Executive Officer."

D. Provisions

1. Hereinafter, all waste discharge prohibitions, specifications, and provisions apply to the entire 155 acre site, including the new 9 acre parcel expansion, unless otherwise noted.
2. The dischargers shall comply with all Sections of this Order except site closure specifications C.1 and C.2 immediately upon adoption.
3. The dischargers shall comply with specifications C.1. and C.2 according to the following time schedule:

<u>Task</u>	<u>Compliance Date</u>	<u>Compliance Report Due</u>
a. Submit a status report and detailed plan and time schedule for compliance	.	Nov 1, 1982
b. Submit quarterly status reports until compliance is achieved	.	beginning January 1, 1983
c. Achieve full compliance		
1. Pre-expansion disposal area (146 acres)	Dec. 1, 1984	Jan.1, 1985
2. 9acre expansion area	Dec. 1, 1984	Jan.1, 1985

The final compliance reports are to be prepared by a certified engineering geologist or registered engineer documenting that full compliance has been achieved according to the closure plan specifications.

4. A revised site map shall be submitted to this Board by November 1, 1982. This map shall include the following:
 - a. The new boundaries used for waste disposal
 - b. Method of control of surface drainage of the 9 acre area.
 - c. Fill sequence for the 9 acre area
 - d. Final contours and cross-sections of the 9 acre area.
5. This Board considers the property owner to have a continuing responsibility for correcting any problems which may arise in the future as a result of this waste discharge or water applied to this property during subsequent use of the land for other purposes.
6. The discharger shall file with the Board technical reports or self-monitoring work performed according to the detailed specifications contained in any Monitoring and Reporting Program which may be directed by the Executive Officer.
7. The discharger shall permit the Regional Board:
 - (a) Entry upon premises on which waste are located or in which any required records are kept,
 - (b) Access to copy any records required to be kept under terms and conditions of this Order,
 - (c) Inspection of monitoring equipment or records, and
 - (d) Sampling of any discharge.
8. The discharger shall maintain a copy of the Order at the site or office so as to be available at all times to site operating personnel.
9. The discharger shall file with this Board a report of any material change or proposed change in the character, location or quantity of this waste discharge. For the purpose of these requirements, this includes any proposed change in the boundaries, contours or ownership of the disposal area.
10. The Board's Order No 78-111, and Order No 82-3 are hereby rescinded.

I, Fred H. Dierker, Executive Officer, do hereby certify the foregoing in a full, true and correct copy of an Order adopted by the California Regional Water Quality Control Board, San Francisco Bay Region on September 15, 1982.

FRED H. DIERKER
Executive Officer

Attachments:

- A. Map
- B. Resolution No. 77-7